INTERNATIONAL SEARCH REPORT

International application No. PCT/AU2005/000035

Α.	CLASSIFICATION OF SUBJECT MATTER					
Int. Cl. ⁷ ;	G01N 21/35, G01J 3/42, 3/45, G08G 5/04					
According to International Patent Classification (IPC) or to both national classification and IPC						
В.	FIELDS SEARCHED					
Minimum docu	umentation searched (classification system followed by	classification symbols)				
Documentation	Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
	 Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) DWPI; SO2 OR SULPHUR DIOXIDE; WATER OR H2O OR CLOUD? OR MOISTURE OR HUMIDITY; DETECT+ OR IMAG+ OR SENS+ OR DISTINGUISH+ OR IDENTIF+OR G01N-021/IC; INFRARED OR IR OR TIR; TERRESTRIAL OR AIRBORNE OR AHEAD OR SKY OR "GROUND BASED", SUBTRACT+ OR COMPENSAT+ OR CORRECT+ OR DISCRIMINAT+ OR ELIMINAT+; SPECTR+, +BAND+ OR WAVENUMBER? OR WAVELENGTH? OR ABSORPTION OR EMISSION OR FEATURE? OR SIGNATURE? OR LINE? OR FREQUENC+ OR FILTER+ OR +CHANNEL? OR MULTISPECTR+ and similar keywords Google Scholar: SULPHUR DIOXIDE; WATER; DETECT; THERMAL INFRARED and similar combinations of keywords 					
C.	DOCUMENTS CONSIDERED TO BE RELEVANT					
Category*	Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No.					
X	PRATA A. J., ROSE W.I., SELF S. and O'BRIEN D.M., Global, Long-Term Sulphur Dioxide Measurements From TOVS Data: A New Tool for Studying Explosive Volcanism and Climate, Volcanism and the Earth's Atmosphere, Alan Robock, Clive Oppenheimer, editors; Geophysical Monograph 139, ISBN 0-87590-998-1; Copyright 2003 by the American Geophysical Union; pages 75-92, see in particular Figure 1 and its description; section 3, including subsections 3.3-3.4					
X Fu	urther documents are listed in the continuation	on of Box C X See patent family anne	ex			
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other						
another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "E" document published prior to the international filing date such documents, such combination being obvious to a person skilled in the art document member of the same patent family						
but later than the priority date claimed						
Date of the actual completion of the international search 22 March 2005 Date of mailing of the international search report 3 0 MAR 2005						
Name and mailing	ng address of the ISA/AU	Authorized officer				
PO BOX 200, W	PATENT OFFICE VODEN ACT 2606, AUSTRALIA pct@ipaustralia.gov.au 02) 6285 3929	GREG POWELL Telephone No: (02) 6283 2308				

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No. PCT/AU2005/000035

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report				Pate	ent Family Member		
US	5654700	AU	76657/91	CA	2079812	EP	0525007
		нк	1002938	SG	46261	US	5602543
		wo	9115739				
US	3805074	CA	1011129	DE	2362935	FR	2212927
		JΡ	49099082				
JР	60011122			· · · · · · · · · · · · · · · · · · ·			
EP	0087077	DE	3206427	JР	58156837		
US	6822236	US	6750453				

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX

International application No.

PCT/AU2005/000035

INTERNATIONAL SEARCH REPORT

Relevant to claim No. Tre I-20 Y., the
Y., the
the ;
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PCT REQUEST

Original (for SUBMISSION)

0	For receiving Office use only	
0-1	International Application No.	
0-2	International Filing Date	
0-3	Name of receiving Office and "PCT International Application"	
0-4	Form PCT/RO/101 PCT Request	
0-4-1	Prepared Using	DOM CARR (DAGY 1-1
•	i repaired coming	PCT-SAFE [EASY mode] Version 3.50 (Build 0002.163)
0-5	Petition	Version 3.50 (Bulla 0002.163)
	The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty	
0-6	Receiving Office (specified by the applicant)	Australian Patent Office (RO/AU)
0-7	Applicant's or agent's file reference	FP21044
I	Title of Invention	SULPHUR DIOXIDE DETECTION METHOD
II .	Applicant	
II-1	This person is	applicant only
II-2	Applicant for	all designated States except US
11-4	Name .	COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION
II-5	Address	Limestone Avenue CAMPBELL, Australian Capital Territory 2612 Australia
11-6	State of nationality	AU
1-7	State of residence	AU
II-1	Applicant and/or inventor	
III-1-1	This person is	applicant and inventor
III-1-2	Applicant for	US only
II-1-4	Name (LAST, First)	PRATA, Alfredo Jose
II-1-5	Address	16 Humphries Road MT ELIZA, Victoria 3930 Australia
III-1-6	State of nationality	AU
III-1-7	State of residence	
	Otate of residence	AU

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IV-1	Agent or common representative; or address for correspondence	
	The person identified below is hereby/ has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:	agent
IV-1-1	Name	GRIFFITH HACK
IV-1-2	Address	 509 St Kilda Road
		MELBOURNE, Victoria 3004
		Australia
IV-1-3	Telephone No.	+61 3 9243 8300
IV-1-4	Facsimile No.	+61 3 9243 8333
IV-1-5	e-mail	 ghmelb@griffithhack.com.au
v	DESIGNATIONS	
V-1	The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both regional and national patents.	
VI-1	Priority claim of earlier national	
	application	
VI-1-1	Filing date	16 January 2004 (16.01.2004)
VI-1-2	Number	2004900213
VI-1-3	Country	AU
VI-2	Priority document request	
	The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s):	VI-1
VII-1	International Searching Authority Chosen	Australian Patent Office (ISA/AU)
VIII	Declarations	Number of declarations
VIII-1	Declaration as to the identity of the inventor	-
VIII-2	Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent	-
VIII-3	Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application	-
VIII-4	Declaration of inventorship (only for the purposes of the designation of the United States of America)	-
VIII-5	Declaration as to non-prejudicial disclosures or exceptions to lack of novelty	-

PCT REQUEST

Original (for SUBMISSION)

IX	Check list	number of sheets	electronic file(s) attached	
IX-1	Request (including declaration sheets)	3		
X-2	Description	12	-	
X-3	Claims	3	-	
X-4	Abstract	1	<i>-</i>	
X-5	Drawings	4	-	
X-7	TOTAL	23		
	Accompanying Items	paper document(s) attached	electronic file(s) attached	
X-8	Fee calculation sheet	/	-	
X-17	PCT-SAFE physical media	-	✓	
X-19	Figure of the drawings which should accompany the abstract	1		
X-20	Language of filing of the International application	English		
X-1	Signature of applicant, agent or common representative	Madde		
X-1-1	Name	GRIFFITH HACK		
(-1-2	Name of signatory	Nicholas George Mountford		
K-1-3	Capacity	Principal		

FOR RECEIVING OFFICE USE ONLY

10-1	Date of actual receipt of the purported international application	
10-2	Drawings:	
10-2-1	Received	
10-2-2	Not received	
10-3	Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application	
10-4	Date of timely receipt of the required corrections under PCT Article 11(2)	
10-5	International Searching Authority	ISA/AU
10-6	Transmittal of search copy delayed until search fee is paid	

FOR INTERNATIONAL BUREAU USE ONLY

11-1	Date of receipt of the record copy by	
	the International Bureau	